

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P136664

Luminaire Tested: **LD6A20D010TE ERW6A20827 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23376)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A20D010TE ERW6A20827 6LW121H
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOUBLE WALL WASH LUMINAIRE
SEMI-SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER
Light Source: (1) HIGH LUMEN LED 2700K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2218.0 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

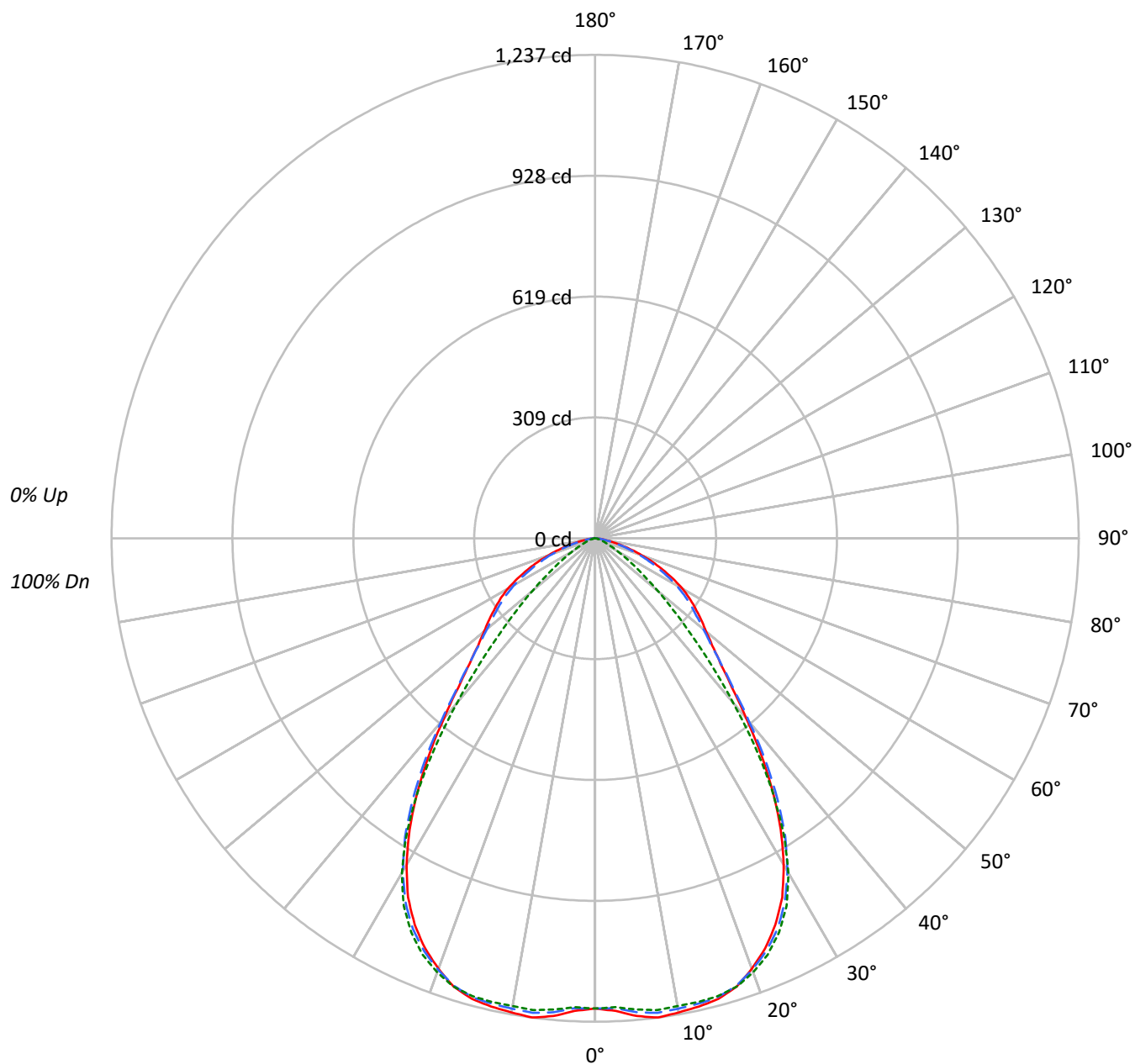
Input Watts (W): 32.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	108	104	101	109	105	102	100	101	99	96		97	95	94		94
2	103	97	91	87	101	95	90	86	91	87	84		88	85	82		85
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78
4	89	79	72	66	87	78	71	66	75	70	65		73	68	64		71
5	83	72	64	59	81	71	64	59	69	63	58		67	62	57		65
6	77	66	58	53	76	65	58	53	63	57	52		62	56	52		60
7	72	61	53	48	71	60	53	48	58	52	47		57	51	47		56
8	68	56	49	43	67	55	48	43	54	48	43		53	47	43		52
9	64	52	45	40	63	51	44	40	50	44	39		49	43	39		48
10	60	48	41	37	59	48	41	36	47	41	36		46	40	36		45

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	78504	78504	78504
5°	80369	79740	79269
10°	81610	80980	80503
15°	82401	82077	81915
20°	81383	81550	82050
25°	78543	79400	80091
30°	72659	74098	74460
35°	63126	64647	62943
40°	51236	52258	46764
45°	41851	42072	31720
50°	37564	36589	21081
55°	35579	33941	13581
60°	33638	31146	8716
65°	29485	26907	5527
70°	24130	21860	3643
75°	17443	15654	2395
80°	11647	9881	1803
85°	7111	5390	1797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	5.2
10°-20°	342.1	15.4
20°-30°	503.6	22.7
30°-40°	495.6	22.3
40°-50°	335.1	15.1
50°-60°	225.2	10.2
60°-70°	137.5	6.2
70°-80°	54.2	2.4
80°-90°	8.4	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	962.1	43.4
0°-40°	1457.6	65.7
0°-60°	2018.0	91.0
0°-90°	2218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2218.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1227	1222	1218	1216	1210	117
15°	1220	1215	1215	1216	1213	343
25°	1091	1095	1103	1114	1113	499
35°	793	802	812	799	790	491
45°	454	461	456	377	344	358
55°	313	316	298	167	119	280
65°	191	192	174	70	36	190
75°	69	69	62	24	10	77
85°	10	7	7	4	2	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1203.3	1203.3	1203.3	1203.3	1203.3	1203.3	1203.3	1203.3	1203.3	1203.3	1203.3
2.5°	1210.4	1205.7	1208.1	1205.7	1205.7	1200.9	1205.7	1205.7	1203.3	1203.3	1203.3
5°	1227.2	1224.8	1227.2	1222.4	1224.8	1220.0	1222.4	1220.0	1217.6	1217.6	1217.6
7.5°	1236.7	1231.9	1234.3	1229.5	1231.9	1227.2	1229.5	1227.2	1224.8	1224.8	1222.4
10°	1231.9	1229.5	1229.5	1227.2	1227.2	1222.4	1227.2	1224.8	1220.0	1222.4	1220.0
12.5°	1227.2	1224.8	1227.2	1222.4	1224.8	1217.6	1222.4	1220.0	1217.6	1220.0	1217.6
15°	1220.0	1217.6	1220.0	1215.2	1217.6	1212.8	1217.6	1215.2	1212.8	1215.2	1212.8
17.5°	1203.3	1200.9	1203.3	1200.9	1203.3	1196.1	1200.9	1200.9	1198.5	1200.9	1200.9
20°	1172.2	1169.9	1172.2	1169.9	1172.2	1167.5	1172.2	1172.2	1169.9	1174.6	1174.6
22.5°	1136.4	1136.4	1136.4	1136.4	1138.8	1134.0	1138.8	1138.8	1138.8	1143.6	1143.6
25°	1091.1	1093.5	1093.5	1093.5	1095.9	1093.5	1098.2	1098.2	1098.2	1103.0	1103.0
27.5°	1036.2	1036.2	1038.6	1040.9	1040.9	1038.6	1043.3	1045.7	1045.7	1050.5	1052.9
30°	964.5	966.9	969.3	971.7	974.1	971.7	976.5	976.5	978.9	983.6	986.0
32.5°	883.4	888.1	888.1	892.9	895.3	892.9	900.1	897.7	900.1	904.9	907.2
35°	792.6	797.4	797.4	802.2	802.2	802.2	807.0	809.4	809.4	811.7	811.7
37.5°	697.1	701.9	699.5	706.7	706.7	704.3	713.9	713.9	711.5	713.9	711.5
40°	601.6	606.4	606.4	611.2	611.2	611.2	618.4	613.6	613.6	613.6	608.8
42.5°	518.1	522.9	522.9	527.6	527.6	527.6	532.4	532.4	527.6	525.2	518.1
45°	453.6	456.0	458.4	460.8	460.8	460.8	465.6	463.2	460.8	456.0	444.1
47.5°	405.9	408.3	408.3	410.6	410.6	410.6	413.0	413.0	408.3	401.1	389.2
50°	370.1	370.1	372.4	372.4	374.8	372.4	374.8	372.4	367.7	360.5	346.2
52.5°	341.4	341.4	341.4	343.8	343.8	343.8	343.8	341.4	336.6	327.1	310.4
55°	312.8	312.8	315.1	315.1	317.5	315.1	315.1	312.8	305.6	298.4	279.3
57.5°	286.5	286.5	286.5	288.9	288.9	288.9	286.5	284.1	279.3	269.8	250.7
60°	257.8	257.8	257.8	257.8	260.2	257.8	257.8	253.1	248.3	238.7	222.0
62.5°	224.4	224.4	224.4	226.8	226.8	224.4	224.4	219.6	214.9	205.3	188.6
65°	191.0	191.0	191.0	193.4	193.4	191.0	191.0	186.2	181.4	174.3	157.6
67.5°	160.0	160.0	160.0	160.0	160.0	157.6	157.6	155.2	150.4	143.2	131.3
70°	126.5	126.5	126.5	128.9	126.5	126.5	126.5	124.1	119.4	114.6	102.7
72.5°	97.9	97.9	97.9	97.9	97.9	97.9	95.5	95.5	90.7	85.9	78.8
75°	69.2	69.2	69.2	69.2	69.2	69.2	69.2	66.8	64.5	62.1	54.9
77.5°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	45.4	45.4	43.0	38.2
80°	31.0	31.0	31.0	31.0	31.0	28.6	28.6	28.6	28.6	26.3	23.9
82.5°	19.1	16.7	19.1	16.7	16.7	16.7	16.7	16.7	16.7	16.7	14.3
85°	9.5	9.5	9.5	9.5	7.2	7.2	7.2	7.2	7.2	7.2	7.2
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1203.3	1203.3	1203.3	1203.3	1203.3	1203.3	1203.3	1203.3
2.5°	1203.3	1198.5	1203.3	1205.7	1200.9	1203.3	1205.7	1200.9
5°	1217.6	1210.4	1215.2	1217.6	1210.4	1212.8	1215.2	1210.4
7.5°	1224.8	1217.6	1222.4	1222.4	1215.2	1220.0	1222.4	1217.6
10°	1220.0	1215.2	1220.0	1220.0	1215.2	1217.6	1220.0	1215.2
12.5°	1217.6	1212.8	1217.6	1220.0	1212.8	1217.6	1220.0	1215.2
15°	1215.2	1210.4	1215.2	1217.6	1210.4	1215.2	1217.6	1212.8
17.5°	1200.9	1198.5	1205.7	1205.7	1200.9	1205.7	1208.1	1203.3
20°	1177.0	1174.6	1181.8	1184.2	1179.4	1184.2	1186.6	1181.8
22.5°	1146.0	1143.6	1150.8	1153.1	1148.4	1153.1	1155.5	1153.1
25°	1107.8	1105.4	1112.6	1115.0	1110.2	1115.0	1117.3	1112.6
27.5°	1055.3	1052.9	1060.0	1060.0	1057.7	1062.4	1064.8	1060.0
30°	988.4	983.6	990.8	988.4	986.0	990.8	990.8	988.4
32.5°	904.9	900.1	904.9	900.1	900.1	902.5	902.5	897.7
35°	807.0	804.6	802.2	795.0	795.0	795.0	795.0	790.3
37.5°	704.3	697.1	692.4	680.4	675.7	678.0	675.7	670.9
40°	599.3	587.3	577.8	563.4	556.3	556.3	553.9	549.1
42.5°	506.1	489.4	475.1	456.0	448.8	446.5	441.7	439.3
45°	429.7	408.3	386.8	367.7	355.7	353.3	348.6	343.8
47.5°	370.1	343.8	317.5	296.0	284.1	276.9	272.2	269.8
50°	322.3	293.7	262.6	236.4	224.4	214.9	210.1	207.7
52.5°	284.1	253.1	217.3	191.0	176.7	167.1	162.3	157.6
55°	253.1	217.3	181.4	152.8	138.5	128.9	124.1	119.4
57.5°	222.0	188.6	150.4	121.8	107.4	97.9	93.1	90.7
60°	193.4	160.0	124.1	97.9	83.6	74.0	69.2	66.8
62.5°	164.7	133.7	102.7	78.8	64.5	54.9	50.1	50.1
65°	136.1	109.8	81.2	59.7	47.7	40.6	35.8	35.8
67.5°	112.2	88.3	64.5	47.7	35.8	31.0	26.3	26.3
70°	88.3	71.6	50.1	38.2	28.6	21.5	19.1	19.1
72.5°	66.8	54.9	38.2	28.6	21.5	16.7	14.3	14.3
75°	47.7	38.2	28.6	19.1	14.3	11.9	9.5	9.5
77.5°	33.4	26.3	19.1	14.3	9.5	7.2	7.2	7.2
80°	21.5	16.7	11.9	9.5	7.2	4.8	4.8	4.8
82.5°	11.9	9.5	7.2	4.8	4.8	2.4	2.4	2.4
85°	4.8	4.8	4.8	2.4	2.4	2.4	2.4	2.4
87.5°	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°









(END OF REPORT)